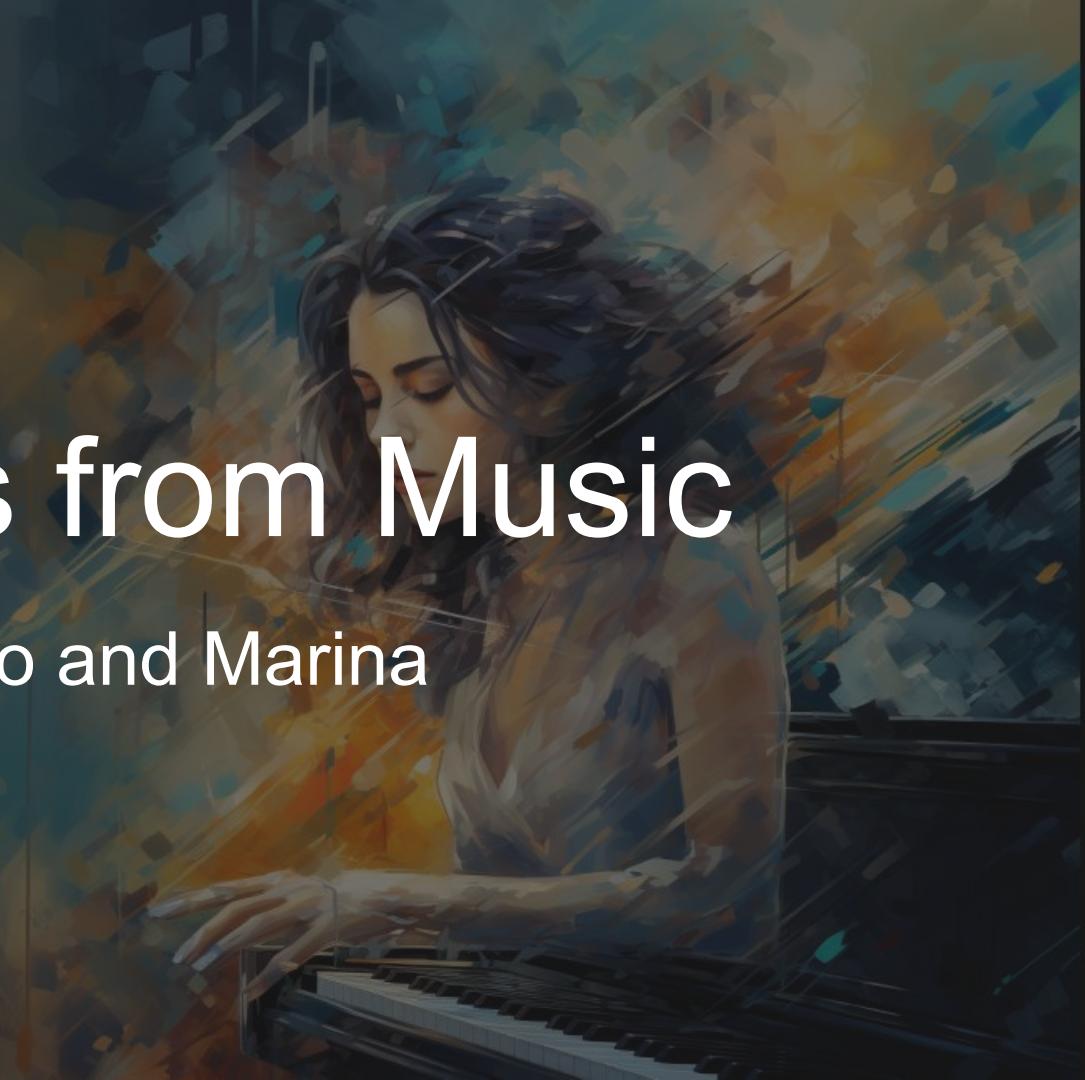
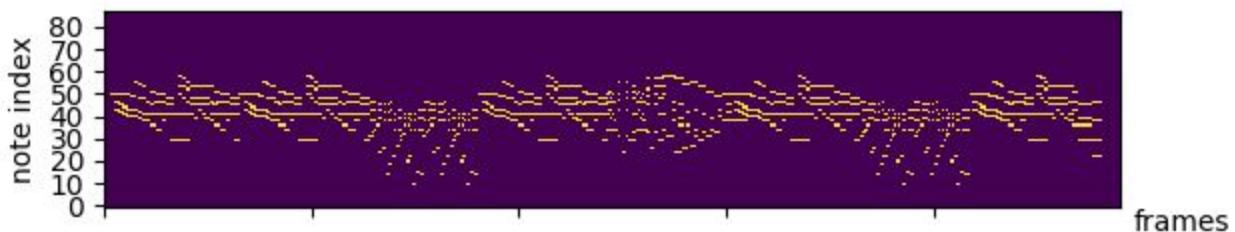


Pictures from Music

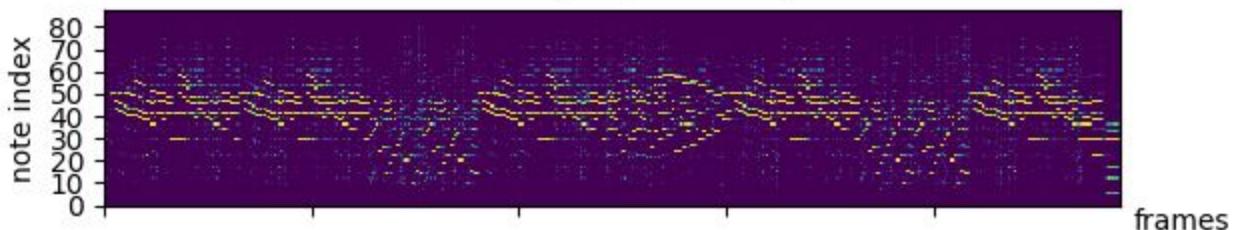
Renzo and Marina



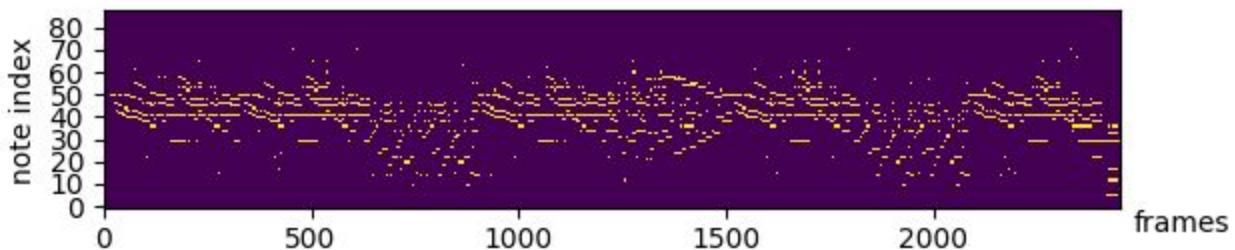
Ground truth



DNN output probability



DNN output probability after thresholding



ONSETS AND FRAMES: DUAL-OBJECTIVE PIANO TRANSCRIPTION

```
Iter: 9800 loss: 0.046381  
Save model to /home/renzo/data/renzo/music_transcription_MAPS/models/main_dnn/logmel/md_10000iters.tar
```

```
--- Evaluation of training set (subset), iteration: 10000 ---  
prec: 0.917735, recall: 0.855233, fvalue: 0.885382  
--- Evaluation of testing set, iteration: 10000 ---  
prec: 0.765120, recall: 0.752028, fvalue: 0.758517
```

```
Iter: 10000 loss: 0.047902  
Loading checkpoint '/home/renzo/data/renzo/music_transcription_MAPS/models/main_dnn/logmel/md_10000iters.tar'
```

	Frame			Note			Note w/ offset			Note w/ offset & velocity		
	P	R	F1	P	R	F1	P	R	F1	P	R	F1
Sigtia et al., 2016 [18]	71.99	73.32	72.22	44.97	49.55	46.58	17.64	19.71	18.38	—	—	—
Kelz et al., 2016 [13]	81.18	65.07	71.60	44.27	61.29	50.94	20.13	27.80	23.14	—	—	—
Melodyne (decay mode)	71.85	50.39	58.57	62.08	48.53	54.02	21.09	16.56	18.40	10.43	8.15	9.08
Onsets and Frames	88.53	70.89	78.30	84.24	80.67	82.29	51.32	49.31	50.22	35.52	30.80	35.39

Table 1. Precision, Recall, and F1 Results on MAPS configuration 2 test dataset (ENSTDkCl and ENSTDkAm full-length .wav files). Note-based scores calculated by the *mir_eval* library, frame-based scores as defined in [2]. Final metric is the mean of scores calculated per piece. MIDI files used to calculate these scores are available at <https://goo.gl/magenta/onsets-frames-examples>.

```
tensor([[1.7543e-15, 8.6796e-27, 4.5216e-24, ..., 2.9552e-25, 2.7743e-29,  
3.7000e-24],  
[9.6932e-14, 2.1026e-26, 2.6700e-23, ..., 4.9961e-25, 8.8778e-29,  
1.9069e-23],  
[1.6453e-12, 1.0424e-24, 3.3272e-21, ..., 1.2689e-22, 4.4263e-26,  
1.1162e-21],  
...,  
[8.2437e-15, 4.0460e-29, 6.4378e-26, ..., 1.4898e-23, 1.4473e-29,  
3.1063e-26],  
[2.6209e-14, 1.0589e-27, 1.7431e-24, ..., 8.4707e-23, 4.2315e-28,  
5.3041e-25],  
[1.9792e-16, 1.9474e-28, 4.2348e-25, ..., 7.1980e-23, 1.5331e-28,  
1.7270e-25]])
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Frame 22: D3
Frame 23: D3
Frame 24: D3
Frame 25: D1, A1, D3, A3
Frame 26: D1, A1, D3, A3
Frame 27: D1, A1, D3, A3
Frame 28: A1, D3
Frame 29: D3
Frame 30: D3
Frame 31: D3
Frame 32: D3
Frame 33: A1, D3
Frame 34: D1, A1, D3
Frame 35: D3
Frame 36: D3
Frame 37: D3
Frame 38: A1, D3
Frame 39: A1, D3, A3
Frame 40: D1, A1, D2, D3, A3
Frame 41: D1, A1, D2, D3, A3
Frame 42: D1, A1, D3
Frame 43: D3

How?

Describe the feelings from the hero of the {song_name} music from their perspective. Give the first-person description What do they feel? What do they see? What do they hear? Do not use the words related to music or video, only give visual description for the picture. Do not use singers name.

give the best description to Midjourney bot so that it draws an image for {song_name} music. I want to capture emotions. Do not type anything else except the description. Use at least 5 sentences. Do not use the words related to music or video. Do not use singers name.

retell {song_name}. Do not use the words related to music or video, only give visual description for the picture. Do not use singers name. Give the description of emotions as vividly as possible.

/create rachmaninoff symphony 2



/create rachmaninoff symphony 2



This painting captures the soaring emotions of Rachmaninoff's Symphony 2. The brushstrokes depict the bright intensity of this beloved piece of music, radiating off the canvas and captivating viewers. The colors of the painting showcase the deep beauty and powerful melodies of the symphony, with bright shades of teal and coral balanced with the heavy blues and purples. The swirling elements represent the emotional wave of the symphony, intensifying in the middle and dissipating gracefully in the end. Glowing golden highlights emphasize the energetic and timeless character of Rachmaninoff's classic. In the end, this painting creates an emotional journey for the viewer, perfectly encapsulating the composer's timeless work.

/create rachmaninoff symphony 2



I feel a deep sorrow through my entire being. My vision is blurred and hazy as clouds of darkness seem to drift down, a gentle mist that matches the gentle melody of the strings. It is an emotion of pure despair but somehow the music keeps me afloat. I can see shadows of despair and hissing of the devil all around me. The air around me is heavy and stagnant, creating a storm of chaotic notes that linger in my ears and echo in my heart. I gasp for breath and my chest heaves, my sorrow seeming to consume me but still the music keeps me safe from its claws. It's like a light in the darkness of my despair, a hope of a brighter future amongst the discordant tones.



/create Shape of you by Ed Sheeran



I feel an undeniable connection to this person that is almost magnetic; I'm entranced by their beauty. From head to toe they ooze confidence and I know that I want to be with them. When I look at them, my world stops - time stands still. I can feel their soul and it seems to fit perfectly with mine. When I'm near them, an electric energy buzzes around us as if we were two halves that finally completed something whole. I can hear my heart racing in my chest as I draw closer and closer. I know that this is a moment I will never forget.

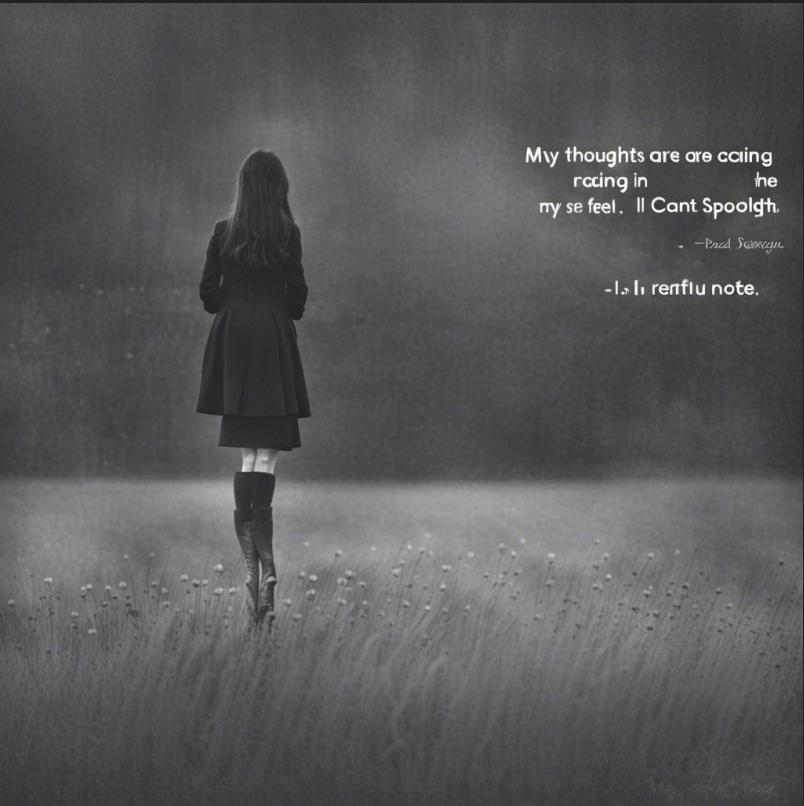


/create Shape of you by Ed Sheeran



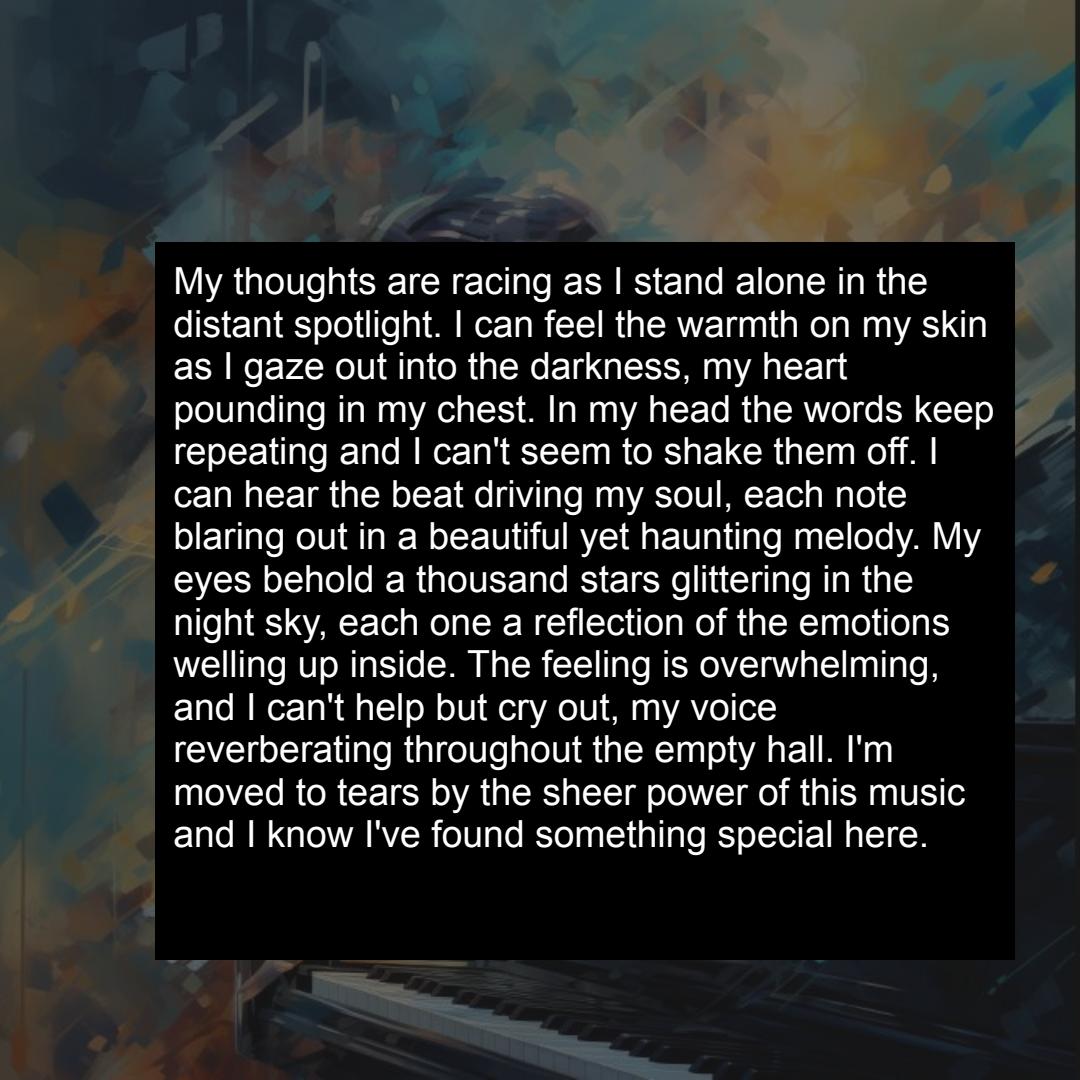
In the visual depiction of the story, we see a bustling cityscape illuminated by the warm glow of streetlights. Amidst the urban backdrop, a young couple catches our attention. They engage in a playful dance, their bodies gracefully moving together in sync. Their laughter fills the air as they explore the vibrant nightlife, hopping from one venue to another. As the night progresses, we witness the couple indulging in delectable cuisine at a cozy restaurant. The aroma of mouthwatering dishes wafts through the air, enticing our senses. Their faces light up with delight as they savor each bite, their joy radiating from within. Leaving the restaurant, they venture into a lively club, pulsating with energy. The dance floor becomes their sanctuary, where they lose themselves in the rhythm of the music. Their bodies intertwine, swaying to the beat as they become one with the crowd. The colorful lights illuminate their ecstatic expressions, capturing the euphoria of the moment. The scene transitions to a serene landscape, where the couple finds solace in the beauty of nature. They embark on a picturesque hike, surrounded by lush greenery and stunning vistas. Hand in hand, they conquer challenging trails, relishing the feeling of accomplishment as they reach breathtaking viewpoints. Back in the city, we witness the couple's intimate moments in a cozy apartment. They share laughter, conversations, and stolen glances, their connection growing stronger with each passing day. The walls are adorned with memories, photographs capturing their adventures and milestones.

/create bohemian rhapsody



My thoughts are racing
racing in the
way I feel. I can't stop it.
- Paul McCartney

- In a recent note.



My thoughts are racing as I stand alone in the distant spotlight. I can feel the warmth on my skin as I gaze out into the darkness, my heart pounding in my chest. In my head the words keep repeating and I can't seem to shake them off. I can hear the beat driving my soul, each note blaring out in a beautiful yet haunting melody. My eyes behold a thousand stars glittering in the night sky, each one a reflection of the emotions welling up inside. The feeling is overwhelming, and I can't help but cry out, my voice reverberating throughout the empty hall. I'm moved to tears by the sheer power of this music and I know I've found something special here.

/create I'm a barbie girl

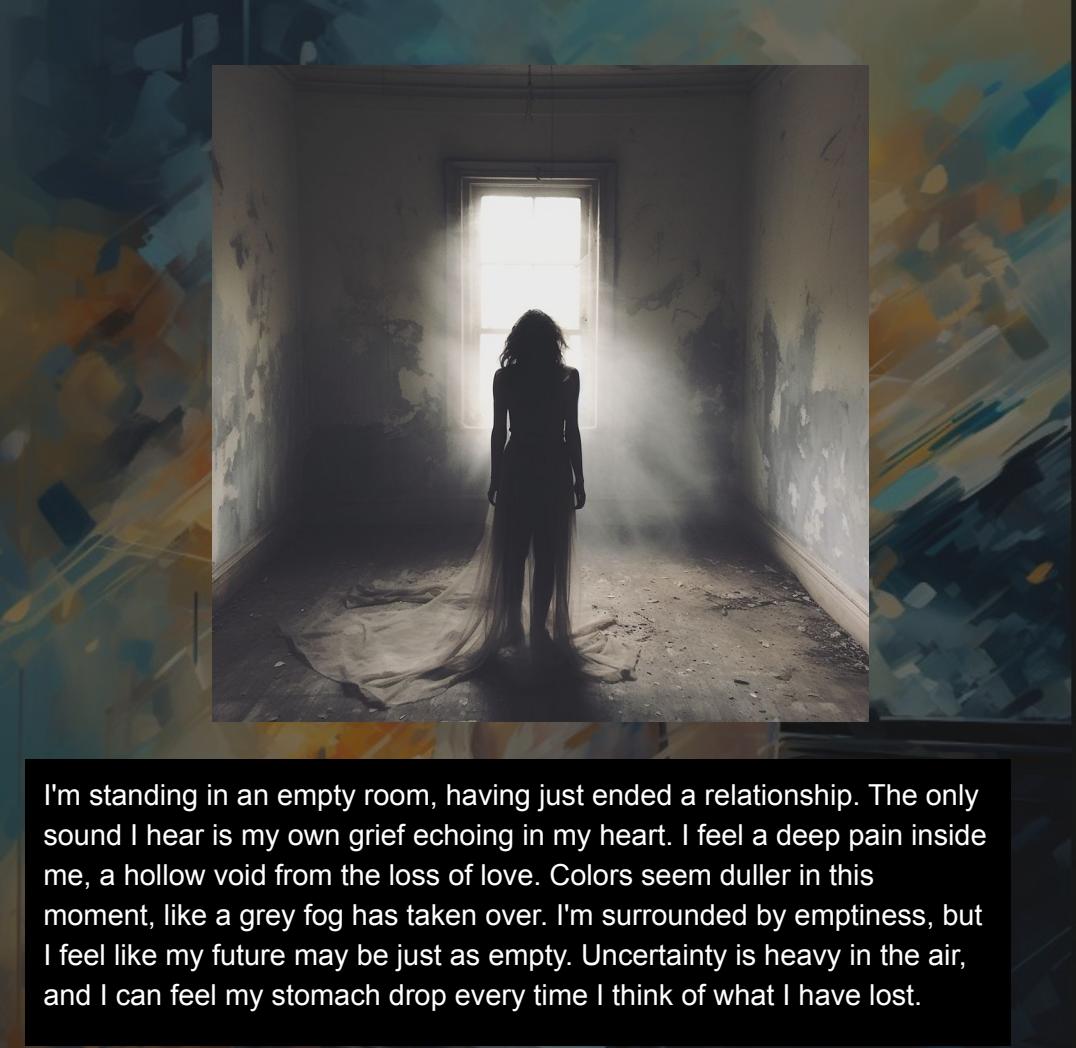


I feel so alive, like I'm on top of the world! I can see the bright colors of my world, all around me, filled with glitter and glamour. I can hear the birds chirping high above me as the sun warms my skin. I'm smiling a bright and joyful smile, surrounded by friends having the time of our lives. We move our bodies together in perfect harmony, feeling like royalty in a fabled kingdom. There's no better feeling than being surrounded by those I love and living my best life.

/create DiE4u by Bring me the Horizon



/create Hello by Adele

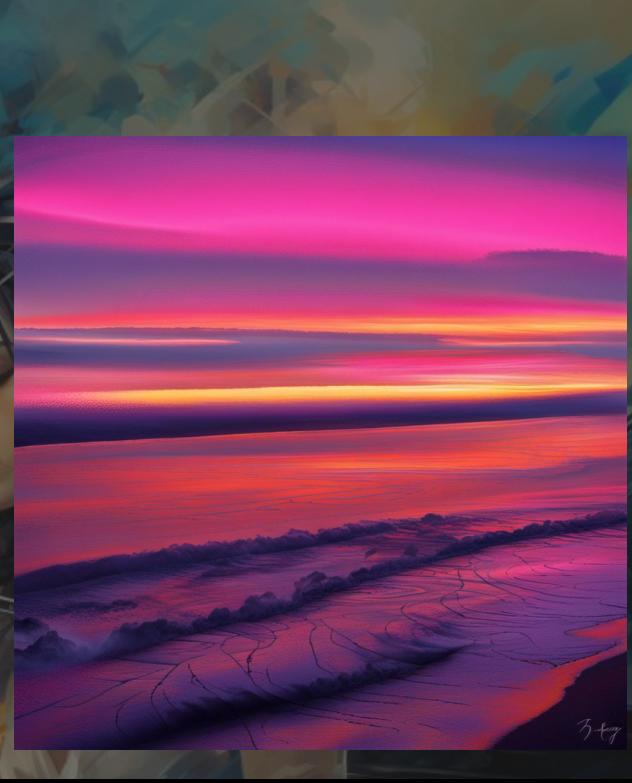


I'm standing in an empty room, having just ended a relationship. The only sound I hear is my own grief echoing in my heart. I feel a deep pain inside me, a hollow void from the loss of love. Colors seem duller in this moment, like a grey fog has taken over. I'm surrounded by emptiness, but I feel like my future may be just as empty. Uncertainty is heavy in the air, and I can feel my stomach drop every time I think of what I have lost.

/create Imagine john lennon



I feel a sense of wonder as I look out over this beautiful world. I see majestic mountains, lush fields, crystal clear water, and glimmering stars in a deep, starry sky. The sky is filled with the sounds of birdsong and the rustle of leaves in the breeze, a peaceful harmony that soothes my spirit. With each breath I take, I feel a deep connectedness to the natural world around me, and a sense of boundless possibility. I take a moment to simply appreciate all I have around me, and the feeling of hope that it brings.



I feel tranquil and captivated as I take in the sunset. I see the vibrant pinks, oranges, and purples that decorate the horizon and the sky a deep cobalt. The stillness of the air envelopes me as I close my eyes and let the gentle notes drift to my ears. My soul is wreathed in bliss as the sound penetrates ever deeper, freeing my spirit and my worries, unshackling their fragile binds. I can feel the love emanating from the melody as if it were tangible, wrapping me in an embrace. I can't help but smile as my heart is filled with a longing for the embrace to never end.

/create Happy by Pharrell Williams



/create 'Toxic' by Britney Spears



From within my heart, I feel a deep ache that I can't quite explain. I'm surrounded by a suffocating fog, and it's hard to make sense of what's real or a dream. I can almost taste the bitterness coating my tongue, and my chest feels tight with each shallow breath I take. I can feel my blood pumping in my veins, adding to the pulsing sensations that build and overwhelm me....

/create The Program on AI and Reasoning by
ESPR team



I feel a sense of excitement and anticipation as my fingers hover above the controls. I see the backdrop of a vibrant urban landscape, with towering structures and lively streets below. I hear the hum of machinery around me and a pulsing, rhythmic electronic beat as I start to play the music. It builds steadily, drawing me in with each beat as I change the controls and shift the sound. It feels like a journey, as I become immersed in the music and it carries me away.

